NC/QC/BD/2020-21/RSR-CB5 Date: 30-06-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-06-20	30-06-20	07	22500	365	16.22	**16.15**
	002	‘’	“	‘’	“	370	16.44	
	003	‘’	“	‘’	“	355	15.78	

For Newzen Consultants Bangalore
Proprietor

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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NC/QC/BD/2020-21/RSR-CB1A

Date: 13-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-06-20	13-07-20	28	22500	525	23.33	**22.96**
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	510	22.67	

For Newzen Consultants Bangalore
Proprietor

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NC/QC/BD/2020-21/RSR-CB2A

Date: 16-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-06-20	16-07-20	28	22500	500	22.22	**22.44**
	002	‘’	“	‘’	“	510	22.67	
	003	‘’	“	‘’	“	505	22.44	

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For Newzen Consultants Bangalore

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NC/QC/BD/2020-21/RSR-CB3A

Date: 18-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	20-06-20	18-07-20	28	22500	510	22.67	**23.04**
	002	"	"	"	"	525	23.33	
	003	"	"	"	"	520	23.11	

For Newzen Consultants Bangalore

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NC/QC/BD/2020-21/RSR-CB4A

Date: 20-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-06-20	20-07-20	28	22500	515	22.89	**22.52**
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	510	22.67	

For Newzen Consultants Bangalore
Proprietor

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NC/QC/BD/2020-21/RSR-CB5A

Date: 21-07-2020

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	23-06-20	21-07-20	28	22500	510	22.67	**22.37**
	002	"	"	"	"	495	22.00	
	003	"	"	"	"	505	22.44	

For Newzen Consultants Bangalore

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NC/QC/BD/2020-21/RSR-W1

Date: 02-07-2020

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.25**	95-100
26.50	**---**	-
22.40	**76.15**	60-80
11.20	**53.65**	40-60
4.75	**31.80**	25-40
2.36	**25.05**	15-30
0.600	**17.55**	8-22
0.075	**4.10**	0-5

For Newzen Consultants Bangalore
Proprietor

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Date: 02-07-2020

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.56%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.74 %**	Not more than 35.0 %
3.	Water absorption, %	**0.41 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

For Newzen Consultants Bangalore
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NC/QC/BD/2020-21/RSR-C3 Date: 04-07-2020

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.14%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.54 N/Sq mm**	Shall not be less than 27 N/Sqmm

For Newzen Consultants Bangalore

Proprietor

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NC/QC/BD/2020-21/RSR-PCC2

Date: 04-07-2020

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to RCC Drains and RCC Culverts at Right Side Roads of 1st Main Road Kuvempu Nagara, and Surrounding area in Ward No.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Byatarayanapura Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**64.15**	0 -20	30- 70
10mm	**32.55**	0 -5	10- 35
4.75mm	**4.10**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**95.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.65**	60-95	75-100	85-100	
01.18	**75.10**	30-70	55-90	75-100	
600.mic	**47.80**	15-34	35-59	60-79	
300.mic	**24.05**	5-20	8-30	12-40	
150.mic	**8.10**	0-10	0-10	0-10	

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